MATVEYEVA, F.A.; PLEKHANOVA, Ye.A. Mineralogical characteristics of the raw material for aluminum silicate refractories of the Kuznetsk Metallurgical Plant. Trudy Khim.-met.inst.Sib.otd.AN SSSR no.17:47-59 '61. (MINA 15:8) (Novokuznetsk-Refractory materials) (Clay-Analysis)

MATVEYEVA, F.A.; PLEKHANOVA, Ye.A. Effect of iron oxide on the morphology of mullite. Trudy Khim.met.inst.Sib.otd.AN 3SSR no.17:11-15 '61. (MIKA 15:8)

(Mullite) (Iron oxides) CHETVERIKOV, D.I.; PLEXHANOVA, Ye.A. Technology of the preparation of raw wood tar for procession.

Oldeolia, i lesokhim, prom. 17 no.4:25-27 '64 (MIRA 17:1) 1. TSentral nyy nauchno-issledovatel skiy lesokhimicheski; institut.

- 10/1/2/59 465 0 ACCESSION NAT AT5008124 the period of intensive mullite formation; mullite crystals grow during the sintering process. Thus, sinter in the kaolinite-ferric oxide system is due both to the presence of the liquid phase and to the recrystallization of mullite. Ferric oxide in amounts from 0.3 to 8.0% promotes the mullitization of kaolinite. A further piae in ferric oxide content decreases the yield of mullite because of the formation of the liquid phase and probably because of the decomposition of mullite by from exiden. The results of the study indicate that the composition of mullite pro duced by heating refractory clays differs from a mullite, which has the formula \$A1203.725102; since a solid solution of mullite and ferric oxide is formed. The presence of this solid solution is shown by an increase in the index of refraction as the ferric oxide content of the mixtures increases; and by the nature of the infrared absorption spectra. At 1400-1500°, ferric oxide partly decomposes the multire. The limiting content of ferric oxide above which the refractoriness and slag resistance undergo a sharp dacline is 5.0%. Orig, art chas: 9 figures and 11 tailes. ASSECTATION. 110119 SUB COIE: 51.0 (8.4) ear. 2/5

INDICESSOR NOTE | STATE | STAT

TALKHANOVA, Youke, Workship late, North, Male 1. Institut flyck wkhimsenskuka van a prostosovki sin salimena syr'ya Sibirakaga ataslamiya AR Lisk, E mastalask.

USSR/Chemical Technology - Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, 1-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62314

Abstract: absorption of 4 to 6%. The tests showed that tiles made from Doroginsk clay, under operational conditions are stable or relatively stable on exposure to hot H_2SO_4 of 3.6% concentration and unstable in alkaline media and entirely unstable in 93% H_2SO_4 and unstable in alkaline media and entirely unstable in 93% H_2SO_4 and 15% NaOH at 100° . Corrosion in caustic media under operational conditions occurs more rapidly than under laboratory conditions. The method specified in the standard (GOST 473-53) for determination of acid-stability of ceramic materials is very little reproducive of operational use of acid-resistant materials.

Card 2/2

PLEKHANOVA, YE. A

USSR/Chemical Technology - Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, 1-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62314

Matveyeva, F. A., Plekhanova, Ye. A. Author:

Institution: None

Concerning the Use of Acid-Resistant Tile Made from Clays of Doroginsk Deposit in Novosibirsk Oblast in the Chemical Industry Title:

Tr. khim.-metallurg. in-ta Zap. Sib. fil. AN SSSR, 1955, No 9, Original Periodical: 37-49

Abstract: Presentation of the results of tests of chemical stability of ceramic tiles made from Doroginsk clay, under conditions of utilization at a coke and chemicals plant. The procedure of testing in production apparatus with exposure to various caustic media is described. Tests over prolonged periods were made of tiles made from Doroginsk clay having different density and water absorption of <2% and 2 to 4% and of tiles of the Khar kov plant having a water

Card 1/2

PLEKHANOVA, YE.A.

USSR/Chemical Technology - Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62313

Author: Matveyeva, F. A., Plekhanova, Ye. A.

Institution: None

Title: Chemical Stability of Ceramic Tiles Made from Clay of Doroginsk Deposit of Novosibirsk Oblast

Original

Tr. khim. metallurg. in-ta Zap. Sib. fil. AN SSSR, 1955, No 9, Periodical: 19-36

Abstract: Presented are physicochemical characteristics (water absorption, acid resistance, thermal stability, chemical and mineralogical compositions) of tiles made from Doroginsk clay and fired at different temperatures. Data are given concerning laboratory investigations of corroding action of caustic media (H2SO4, HNO3, HC1 and NaOH) depending on concentration and duration of exposure by determining the extent of changes in chemical composition, acid-

Card 1/2

Card 2/2

Acid-Resistant Ceramics From Siberian Raw Material (Cont.)

Grain-size distribution (fraction units in mm)											
0.25	0.25- 0.05	.0.05- .0.02	1 -	0.01- 0.005	-,	0.002- 0.005	0.0005				
0.3	0.08	13.30	12.85	19.41	16.21	19.72	18.13				

Card 3/3

S. P. Sh.

Acid-Resistant Ceramics From Siberian Raw Material (Cont.)

add to the Doroginskoye clays refractory, slightly sintered, sufficiently plastic clays and feldspar as fluxing material; grog must also be added. The author recommends the following proportions for the paste (in percent): light-colored Dorogino clays, 35 to 45; refractory, sintered, sufficiently plastic clay, 25; feldspar, 10 to 15; admixture (grog from the Dorogino clays, porcelain rubble, etc.), 20 to 25. It is possible to obtain a variety of acid-resistant ceramic products from this combination.

	Fire-					
S ₁ 0 ₂	A1 ₂ 0 ₃	Fe ₂ 0 ₃	Ca O	MgO	Others	resistance
68,22	19.42	3.45	0,60	0.83	4.84	1520

Card 2/3

15-57-1-731

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,

p 116 (USSR)

AUTHORS: Matveyeva, F. A., Plekhanova, Ye. A.

TITLE: Acid-Resistant Ceramics From Siberian Raw Material (Kislotoupornaya keramika iz sibirskogo syr'ya)

PERIODICAL: Tr. khim-metallurg, in-ta. Zap-Sib. fil. AN SSSR,

1955, Nr 9, pp 3-17.

ABSTRACT: Experiments have been conducted to manufacture acid-

resistant and earthenware ceramic products from clays of the Yevsinskoye-Dorogino mestorozhdeniye (deposit) in the Novosibirskaya Oblast. The variegated, light-colored clays from the Dorogino part of the deposit were used. The chief properties of these clays are given in the Table (in percent). The yield strength during shearing of air dried material is 3.6 kg/cm². Caking occurs at 1150° to 1200°. To obtain a ceramic

body with high density, acid-resistance, thermal

Card 1/3 stability, and mechanical strength, it is necessary to

MATVEYEVA, F.A., kand. tekhn. nauk, otv. red.; MELEKHOVA, T.F., nauchn. sotr., zam. otv. red.; KVYATKOVSKAYA, K.K., kand. tekhn. nauk, red.; KCSHLYAK, I.L., kand. tekhn. nauk, red.; FLEKHANOVA, Ye.A., nauchn. sotr., red.; SHITSAREHKO, A.A., red.

[Prospects of the development of the ceramic industries of Siberia and of the Far East; materials] Perspektivy razvitiia keramicheskoi promyshlennosti Sibiri i Dal'nego Vostoka; materialy. Novosibirsk, Red.-izd. otdel Sibirskogo otd-niia AN SSSR, 1964. 183 p. (MIRA 17:11)

1. Soveshchaniye po khimii i tekhnologii keramiki i perspektivam razvitiya keramicheskoy promyshlennosti Sibiri i Dal'nego Vostoka. Novosibirsk, 1962. 2. Khimikometallurgicheskiy institut Sibirskogo otdeleniya AN SOSR (for Matveyeva). 3. Gosudarstvennyy nauchnomissledovatel'skiy institut stroitel'noy keramiki (for Kvyatkovskaya, Koshlyak).

ACCERTION NR. AP5017058

solution with multito it 10%. The unit formulas for multite containing various amounts of 162 32 ways detarmined. "The petrographic analysis was carried out by A. A. Golovin, member of the staff of the Institute." Only, are, has: 3 figures and 6 tables.

ASSOCIATION: Institut finite: Associated in the principle of the Physicochemical Principles of the Physicochemical Principles of the Physicochemical Principles.

SUBMITTED: ISMAY64 ENGL: 50 NUB CODE: 10

NO REF SOV 010 OTHER; 023

I 589 M-05 EFF(a)/FFF(a)/FFF(i) Mi

AGGE SUN NR. AP2017055 UR/0282/65/000/001/0048/0054

B41, 133, 18 //

AUTH DB, Plokhanova, Ta, A.; Golmbova, G, A.; Eyusti, N.1. /3

TITLE The multite a ferric oxide solid solution

SOURUE: AN SERR. Shirekoya didelentlye, Izvestiya, Sertya idimicheskiidi nauk, no. 1, 1865; 48-14

TOPIC TAGS, multite, ferric oxide, knolinite, solid solution, petrographic analysis, lattice constant

ABSTRACT. The study was made in order to determine the nature of the incorporation of terric oxide into the structure of multite) and to find the limiting concentration of the favor oxide present in this structure. The samples were prepared by sintering mixtures of knolinite and Fe20, at 1800. Petrographic analysis showed that as the Fe30 contant rose, the refractive intex increased, industing the incorporation of Fe30 in the lattice of multite, intrared spectra showed an isomorphous substitution of Fe30 in the lattice of multite, intrared spectra showed in isomorphous substitution of Fe30 in the lattice of multite, intrared spectra showed in isomorphous substitution of Fe30 in the lattice of multite, intrared spectra showed in isomorphous substitution of Fe30 in the lattice of multite, intrared spectra showed in isomorphous substitution of Fe30 in the lattice of multite, intrared spectra showed in isomorphous substitution of multite with Fe30 in the lattice of multite with Fe30 in the lattice of multite, the data show that the limiting Fe30 concentration in the solid Cerc 1/2

SAVIWOV, O.A.; LUSKIN, A.Ya.; TSEYTLIN, M.G.; PLEKHAHOVA, S.V.; KAPLAN, M.Ya., redaktor; PUL'KINA, Ye.A., tekhnicheskiy redaktor.

[Vibration pile driver with spring-suspended pile cap]Svainye vibropogruchateli s podressorennoi prigruzkoi. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhit., 1954. 126 p. (MLRA 819)

(Pile driving)

PLEKHANOVA, S.V., inzh. Using vibrators in working frozen ground. Biul. stroi. tekh. 12 no.4:9-10 Ap 155. (MIRA 11 (Frozen ground) (Vibrators) (MIRA 11:12)

507/79-29-2-66/71

. Alkaloids of the Plant Trichodesma Incanum. Structure of Incanine and Trichodesmine

ASSOCIATION: Institut khimii rastitel'nykh veshchestv Akademii nauk Uzbekskoy

SSR (Institute for the Chemistry of Vegetable Matter of the Academy

of Sciences, Uzbekskaya SSR)

SUBMITTED: January 3, 1958

Card 3/3

SOV/79-29-2-66/71 Alkaloids of the Plant Trichodesma Incanum. Structure of Incanine and Trichodesmine

alkaloids were separated from the seeds and the upper part of the plant Trichodesma incanum (Bge) DC: incanine (C18H2705N), the N-oxide of incanane, trichodesmine (C18H27O6N), and the N-exide of trichodesmine. Depending on the type of saponification of incanine, new geometrical acids are formed: incanine acid and asoincanine acid from the composition $C_{10}H_{16}O_4$ (V). The conversion of the former into the latter and vice versa was put into practice. The reduction of the methyl esters of both acids with \mathtt{LiAlH}_4 gave trioxy compounds having the composition $C_{10}H_{22}O_3$ (III). Compounds (V) are γ -lactone of 2-oxy-3,5-dimethylhexane-2,4-dicarbonic acid (IV). Incanine (I) has the structure of the cyclic diester of retronecine and of Poxy -3,5-dimethylhexane-2,4-dicarbonic acid. The structure of trichodesmine acid (VII), which is a % -lactonic acid of 2.3-daexy-3.5-da methylhexane-2,4-dicarbonic acid (VI), was determined. Trichodesmine is a cyclic diester of retronecine and of 2,3-dioxy-3,5-dimenthylhexane 2,4-dicarbonic acid (II). There are 1 table and 10 references, 8 of which are Soviet.

Card 2/3

AUTHORS:

Yunusov, S. Yu. and Plekhanova, N. V.

SOV/79-29-2-66/71

TITLE:

Alkaloids of the Plant Trichodesma Incanum (Alkaloidy Trichodesma

Structure of Incanine and Trichodesmine (Stroyeniye inkanina i

trikhodesmina)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 677-684 (USSR)

ABSTRACT:

Men'shikov, G. P. and Rubinshteyn, M. M. (Ref 1) separated the alkaloid trichodesmine (0.075 %) from the subterranean parts of the above plant. By lengthy extraction with ether and chloroform the authors obtained from its seeds various mixtures consisting of bases (Ref 5), On separating the alkaloid mixture (from ripe seeds) four crystalline bases were separated by making use of their different solubility in ether, benzene and acetone. The first alkaloid was unknown and was given the name of "incanine" (I); the second was the N-oxide form of incanine; the third was found to be trichodesmine (II), and the fourth was the N-oxide form of trichodesmine. Both the quantitative and qualitative composition of the alkaloids in the seeds vary markedly depending on the degree of ripenese, on the place of growth, and as far as the subterranean parts are concerned, on the plant developing stage (Table). Thus the following new

Card 1/3

PLEKHANOVA, M.Ye., inzh. Organizing communication channels for remote signal systems in rural electrical networks of medium voltage. Trudy MIMESKH 12:183-194 160. (MIRA 13:9) (Remote control)

PLEKHAMOV, G.F.; VEDYUSHKINA, V.V. Formation of a vascular conditioned respect in ran to charges in a high frequency electromagnetic field. Zhare vys. nerv. deiat. 16 no. 1834-37 Ja.F '66 (MIRA 19:2) 1. Tomskiy meditainskiy institut; Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR i institut avtomatiki i elektrometrii Sibirakoga oldeleniya all SSSR. Salmitted August 26, 1964.

PLEMANOV, V.Ye.

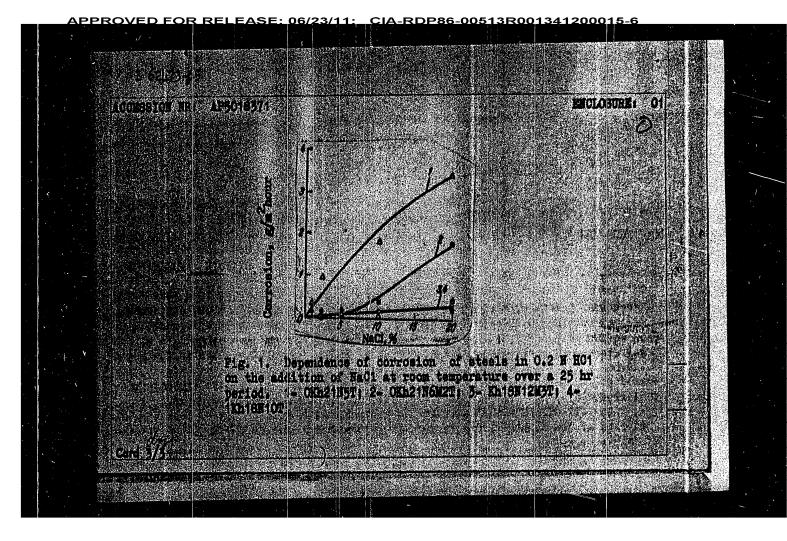
Dissemination of technical progress. Tekst. prom. 16 no.3:
56-57 Ag '56.

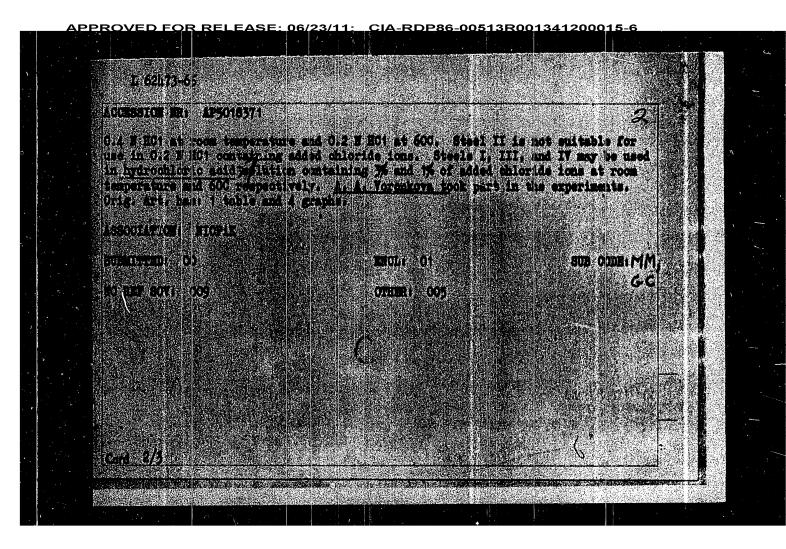
1. Nachal'nik tsekha tkatekikh avtomatov Kostromskogo
1'nokombinata imeni Lenina.
(Kostroma-Technical libraries)

PRAVOTOROVA, N.N.; SHTAL'BERG, P.I.; PLEKHANOV, V.Ye.; BRUT-BRULYAKO, B.N.; OSETROV, I.A.

Loom for flax weaving. Tekst. prom. 17 no.8:28-29 ag '57.

(Looms) (Flax) (MIRA 10:9)





Description of 195019571

LOURDING Territing In 195019571

LOURDING Territing of statillars steels in dilute hydrochlorio soid

LOURDING Initial createry programlements, no. 7, 1955, 537-550

TOPIC TAGS: corrosion, stainlass steel, hydrochlorio soid/Okb21957 steel,

Okb2195827 steel, Initiation in 1950107 steel, initiating territing and the steels Okb21957 steel,

Okb2195827 steel, initiate hydrochlorio soid was stadied and compared with that of steels in 18518 107 [11] and chilling Initiating Initiating and see stadied and compared with that of steels in 18518 107 [11] and chilling Initiating Initiating and see statied. The effect of sodium of the initiating in the steel II is concluded that steel I is shown emphically in Fig. 1 as the shockness. It is concluded that steel I is done not differ significantly for a steel IV as for as its corrow behavior in hydrochlorio soid is concerned, steel IV, is to be preferred to steel II in the presents of Algorificant concerns there of chloride inns. Steels III and I may be used In 18 In 18

TSEYTLIN, Kh.L.; PLEKHAHOVA, V.F.

Corrosion of stainless steel in dilute: nyme aleria edi. Edit., rub. 41 no.7:527-530 Jl 465. (CSAA 18:8)

1. Nauchno-issledovatel skiy isst tot ogsmid blikk, I gottukter i krasiteley.

13000

25829

S/\$\\$5/60/000/130/004/007 E081/E335

AUTHOR:

Plekhanov, V.M., Candidate of Technical Sciences

TITLE:

Transverse Bending and Stability of Three-ply Plates

PERIODICAL: Moscow, Aviatsionnyy institut, Trudy, No. 130, 1960, Prochnost, aviatsionnykh konstruktsiy,

pp. 87 = 109

TEXT: The paper is part of a dissertation submitted to the Moscow Aviation Institute in 1950 (Ref. 7 — the author, Dissertatsiya, MAI, 1950). The plates considered are of sandwich construction with outer layers of strong material separated by a layer of light and weak filling. The geometrical and equilibrium relations are established in differential form and expressions are given for the bending and twisting moments in the plate. Assuming the edges of a rectangular plate are simply supported, the displacement in the plate are expressed as infinite double trigonometric series and by substituting these series in the basic differential quations, a formula is obtained for the transverse deflection of a plate under the

Card 1/2

PLEKHANOV, P.S., inzhener. Research carried on at the Kuznetsk Metallurgical Combine. Stal! 16 no.8: 744-746 Ag '56. (Stalinsk--Metallurgy) (MIRA 9:10)

PLEXIANOV, P.S., inzhener; MIKHAYLETS, N.S., inzhener; GORELMINA, A.Ye.,
Inzhener; NIKULIN, N.G., tekhnik.

Effect of the technology of smelting and pouring boiling stacel
on rejects for lamination flaws. Stal' 16 no.5:422-430 My '56.
(MLRA 9:8)

1. Kunzetskiy metallurgicheskiy kombinat.
(Smelting) (Steel--Defects)

"PIEKHANOV, P.S., kard. tokhm. nauk; Radchenko, R.P., kand. tokhn. a ak;
VINENYAKOVA, M.P., inch. Heating of rail steel ingots in regenerative pits. Stal* 25 no.8:837-840 S *65. t. Kusnetskiy metallurgishoskiy kembinat i Vseseyuznyy nauchno-impledovateliskiy trubnyy institut. YUNUSOV, S.Yu., akademik; PLEKHANOVA, N.V. Alkaloids from Rinders cyclodonta Bgs. from the Boraginaceae family. Dokl.AN Uz.SSR nc.12:27-30 158. (MIRA 12:1) 1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. AN UzSSR i chlen-korrespondent AN SSSR (fer Ymnusov).

(Asia, Central-Borage) (Alkaloids) YUNUSOV, S.Tu., akademik; PLEHAMOVA, N.V.; SHAKIROV, T.

Investigation of several species of Eremurus. Dokl.AN Uz.SSR
no.11:75-27 '58. (MIRA 11:12)

1. Chlen-korrespondent AM SSSR/AN UzSSR (for Yunusov). 2. Institut
khimii rastitel'nykh veshchestv AH UzSSR.
(Lilles) (Alkaloids)

YUNUSOV, S.Yu., akademik; SHAKIROV, T.T.; PLRKHANOVA, N.V.

Alkaloids from Convolvulus subhirsutus Rgl. and Schmae of the family Convolvulaceae. Dek. AN Uz.SSR no.10:17-20 '58.

(MIRA 11:12)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR.2. Chlenkorrespondent AN SSSR i akademik AN UzSSR (for Yunusov).

(Alkaloids) (Bindweed)

Ple Khaneva, A.V YUNUSOV, S.Yu., akademik; PLEKHANOVA, N.V. Study of alkaloids extracted from Sophia griffitii Stock. Dokl. AN (MIRA 11:5) Uz. SSR no.8:17-19 57. 1.AN UzSSR (for Yunusov). 2.Institut khimii rastitel'nyk veshchestv i khlopka AN UzSSR. (Alkaloids)

YUNUSOV, S.Yu., akademik; FLECHANOVA, N.L.

Structure of trichodesmin. Dokl. AM Uz. SSR no.6:19-22 '57.

(MIRA 11:5)

1. Institut khimii rastitel'nykh veshchestv i khlopka AM UzSSR.

2. AM UzSSR (for Yunusov)

(Alkaloide)

PICKING MOULE, M.V.

YUNUSOV, S.Yu., akademik; PLEKHANOVA, N.V.

Incanine structure. Dokl. AN Uz. SSR no.5:13-16 '57. (MIRA 11:5)

1.Institut khimii rastitel'nykh veshchestv i khlopka AN UzSSR.

2. AN UzSSR (for Yunusov).

(Incanine)

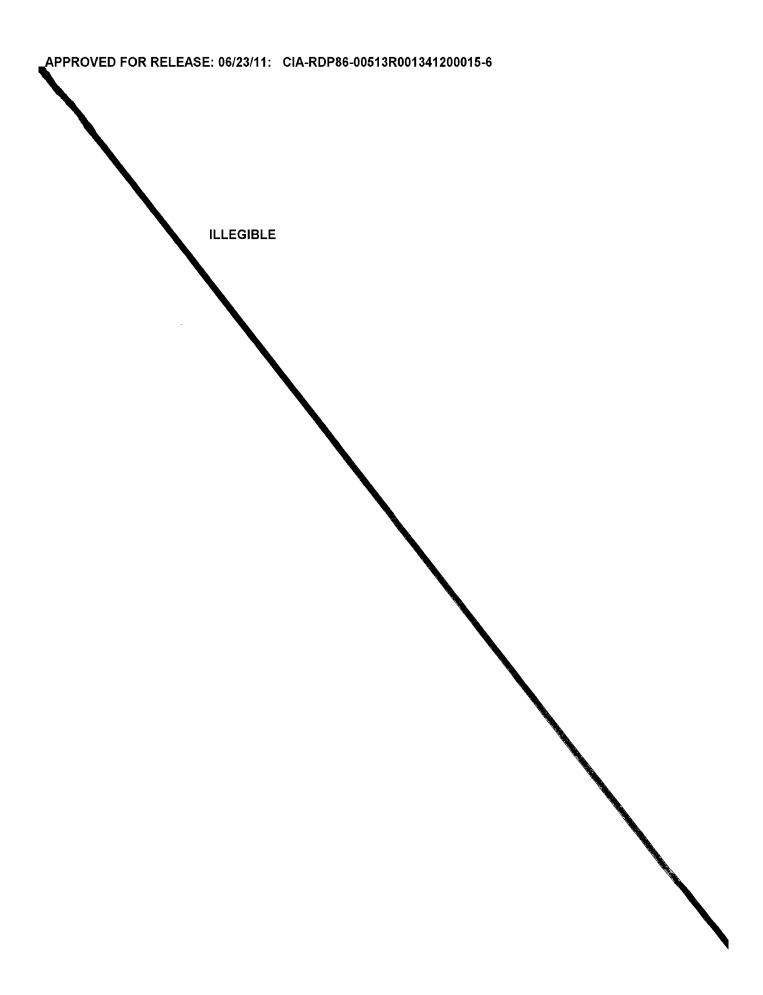
YUNUSOV, S.Yu., akademik; PLEKHANOVA, N.V. Study of Trichodesema incanum alkaloids. Dokl.AN Uz. SSR no. 4:31-33 '57. (MIRA 13 (MIRA 11:5) 1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. AN UzSSR. (Alkaloids)

PLEMAROVA, N. V.: "Investigation of the alkaloids of Trichodeses incum..."

Published by the head Sei Usbek SSA. Lead Sei Usbek LSA.

Inst of the Chemistry of Plant Row Externals and Cotton. Tuskent,
1956. (Dissertation for the Degree of Candidate in Chemical Science)

Source: Knizhnaya Letopis' No. 28 1956 Noscow



ACC NRi A75024918 (H,N)AUTHOR: Anisimova, N. V.; Archakova, Z. N.; Belyayev, S. Ye.; Danilov, Yu. S.; Kish-kina, S. I.; Petrov, Ye. A.; Plekhanova, N. G.; Ponar ina, T. K.; Radetskaya, E. M.; Strunin, B. M. ORG: none TITLE: Mechanical properties of VAD23 alloy SOURCE: Alyuminiyevyye splavy, no. 4, 1966. Zharoprochnyye i vysokoprochnyye splavy (Heat resistant and high-strength alloys), 85-106 TOPIC TAGS: aluminum alloy, solid mechanical property / VAD23 aluminum alloy ABSTRACT: Sections and sheets of VAD23 allow were tested in the artificially aged 14 state (16 hr at 170°C). From the standpoint of creep, stress-rupture strength and recovered strength, the properties of VAD23 are 20-25% higher than those of D16T under long-term performance conditions at 125-150 °C. In compression at temperatures up to 150-175°C, the yield points of sheets and sections of VAD23 are 10-20% higher than in extension. From the standpoint of endurance and fatigue strength, VAD23 is not inferior to V95 alloy, VAD23 has a high sensitivity to notching and sharp cracks; sheets of VAD23 alloy display a high sensitivity to notching and cracking as compared to pressed semifinished products. 40rig. art. has: 12 figures and 14 tables. SUB CODE: 11/ SUBM DATE: none / ORIG REF: 003/ OTH REF: 005

PLEKHANOVA, N.G.; RATNER, S.I. Scale effect in plastic materials. Zhur.tekh.fiz. 24 no.3:445-453 Mr 154. (MIRA 7:5) (Plasticity) (Steel--Testing)

PLEKHANOVA, N. G.

USSR/Physics - Metals, Scale Effect in Testing

Card 1/1

Author

: Plekhanova, N. G. and Ratner, S. I.

Title

: Scale effect in plastic materials

Periodical

: Zhur. tekh. fiz. 24, 445-453, Mar 1954

Abstract

: Studies the effect of scale factor in test specimens of diameters from 5 to 40 mm. Results of testing for mechanical properties are obtained for copper, aluminum and several grades of steel, mainly in hardened and high-tempered state. Seven references, all USSR.

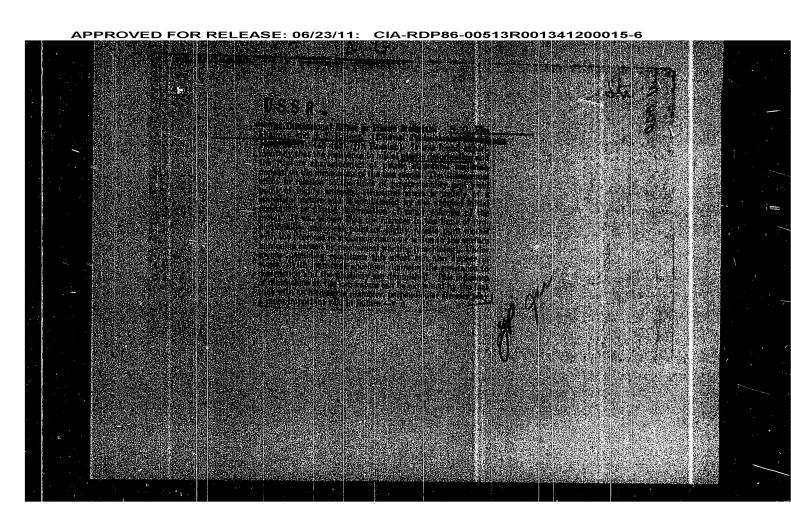
FD 366

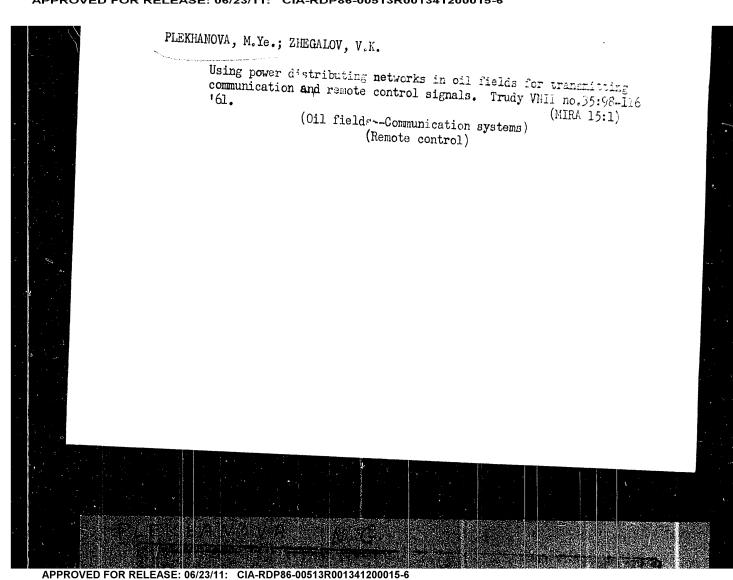
1936-1950. Tables, graphs.

Institution :

Submitted

: August 1, 1953





PLEKHANOVA, M.Ye. Remote control system in rural electrical networks of netion voltage. Dokl. Akad. sel'khoz. 24 no. 12: 37-43 '59. (MIRA 13:4) 1. Moskovskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva. Predstavlena akademikom I.A. Budzko. (Rural electrification) (Remote control)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200015

FLEKHNOVA, Mariya Il'inichna

Epp .R92807

PLEKHNOVA, Mariya Il'inichna

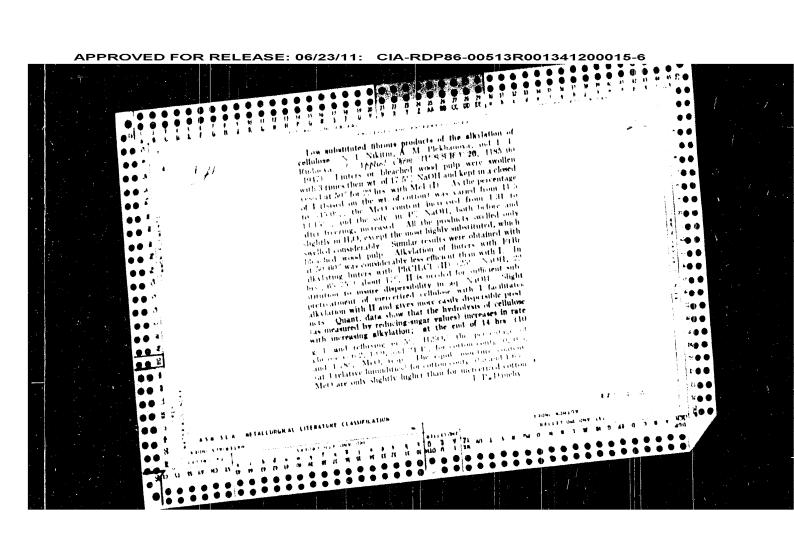
Tipizatsiya teknologicheskikh protesessov v usloviyakh individual'nego provizvodstva (Standardization of technological processes under conditions of individual production, by) M. I. Plekhnova i Petr Nikhaylovich
Ushkalo. Kiyev, Mashgiz, 1956.
51 p. diagrs., tables.

BANNIKOVA, R.V., kand.med.nauk; PLECHANOVA, K.A.

Investigating and reducing the incidence of disease with temporary disability among lumber mill workers. Zdrav. Hos. Feder. 4 no. 10:17-20 0 160. (MIRA 13:10)

1. Iz kafedry organizatsii zdravookhraneniya (zav. - kand.med. nauk R.V. Bannikova) Arkhangel'skogo meditsinskogo instituta i Arkhangel'skoy gorodskoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach Ye.I. #ruglova).

(ARCHANGEL PROVINCE—LUMBERMEN—DISEASES AND HYGIENE)



PLEMENT V., i. I.

Sovetchaia armita - armita neveso tips; brathli reducemi, missanel literatur

The Soviet army is a new tyre of army; brief little created of recommended books.

Nostwo, Gen. orders Lemma belonding, 1969.

St.: Monthly List of Jussian Accessions, Vol. 7 No. 2 May 1954.

CIA-RDP86-00513R001341200015-6 MOROZOV, S.M., dotsent, kandidat tekhnicheskikh nauk; PELER, L.V., dotsent, kandidat tekhnicheskikh nauk; PLEKHANOVA, A.A., inzhener. Defects of welds of rolling stock parts in railroad transportation. Sbor. LIIZHT no.146:262-269 154. (MIRA 8:1) (Railroads--Rolling stock) (Welding)

SPP. $\mathcal{R}\mathcal{H}^{n}$ PLAYHANOVA, A. A. DEFECTLY STRUCTURE KOTELLINYER STILLIN (BE) S. F. MORCHOV I A. A. PLEKELANIA. POLKVA, IZD-VO HINIUTER TV. REGEREGO PISTA SSSR, 1951. 38, (1) D. FLELS., GRAPPT, TABLES. PRELICENAPHY: D. (39)

PLEXHANOV, Yu. 5.

6801. Plokhanov, Yu. -. Zemlyaniku-- v gornyye rayony tadzhikistaha.
Stalinabad. Izd-vo Akad. nauk Tadzhik. NR. In-t betaniki. NauchPopul. B-ka. Vyp. 25). 1.000 ekz. 40 k.- (55-2293) P 634.75 (584.5)

S0: Knizhnaya Letopis' No. 6, 1955

PLEKHANOV, Yo. S.

USSR/Cultivated Plants - Fruits and Berries.

M-5

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 10949

Author

Plekhanov, Yu.S.

Inst

Botanical Institute of the Academy of Sciences Tadzhik SSR

Title

: Wild Fruits and Their Uses.

Orig Pub

: Sad i ogorod, 1956, No 11, 54-56

Abstract

: A short description is given of the work of the Varzob Mountain Botanical Station of the Botanical Institute of the Academy of Sciences TadzhikSSR on the utilization of wild fruit trees as rootstocks in planting gardens on mountain slopes, often on unirrigated lands. Those with the best prospects for the future are: apple, pear, plum (Prunus devaricata), Bokhera almond, and dwarf and

magaleb cherry.

Card 1/1

PLEKHANOV, V.Ye. Practices of assistant foreman Dobrynin's brigade. Tekst.prom. 16 no 7:54-55 J1 '56. (MLRA 9:8) 1. Nachal'nik tsekha Kostromskogo l'nokombinata imeni Lenina. (Kostroma--Linen)

Discordation: "Catedratic of the agency of Skin with Filter for Trace and and Stability."

22/5/50

Loncov Chier of Lenks aviation for Lend Scape Or "cloudistics."

SO Vecheryaya Moskv e

Sum 71

PLEKHANOV, V.M., kand.tekhn.nauk Transverse bending and stability of sandwich plates. Trudy MAI no.130:87-109 160. (MIRA 14:5) (Elastic plates and shells)

137-1957-12-24237

The Stabilization of Welding Current

section both produces and controls the impulse which ignites the L A trigger cascade stabilizes the current in the automatic regulator section.

A. N.

- 3. Welding-Equipment
- 1. Ignitrons-Applications 2. Electric currents-Stabilization

Card 2/2

Ple Khanet V. Va.

137-1957-12-24237

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 191 (USSR)

AUTHORS: Stakhovskiy, S.S., Plekhanov, V.M.

TITLE: The Stabilization of Welding Current (Stabilizatsiya svarochnogo toka)

PERIODICAL: Tr. Gos. Tsentr. n.-i. in-ta-tekhnol. i organiz. proiz-va-M·va radiotekhn. prom-sti SSSR. 1956, Nr 3, pp 72-101

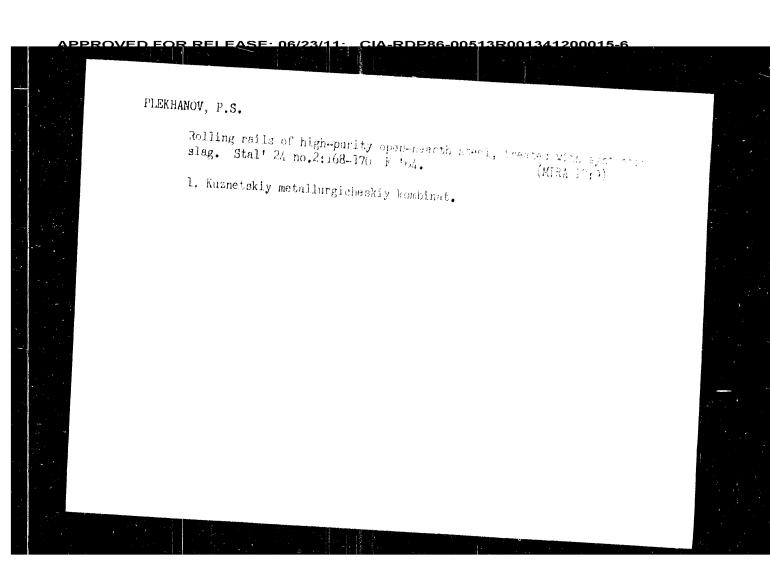
ABSTRACT: An examination of the problem of stabilizing the welding current in heavy-duty spot-weld apparatus during voltage fluctuations in the power network. The stabilization is accomplished by means of changing the ignition angle of the ignitrons (I). It is shown theoretically that the ignition angle of I is practically a linear function of the voltage variation in the power network within ± 20 percent. It is pointed out that the design of the RAST-type regulator for welding current deserves the most serious attention. A diagram of a new I breaker, which incorporates a circuit for the stabilization of the welding current is given. The power-supply section and the sensing and actuating circuits utilize the principles of the corresponding circuit sections of the I-breaker PIT-50. The breaker includes a time relay section. The automatic regulator

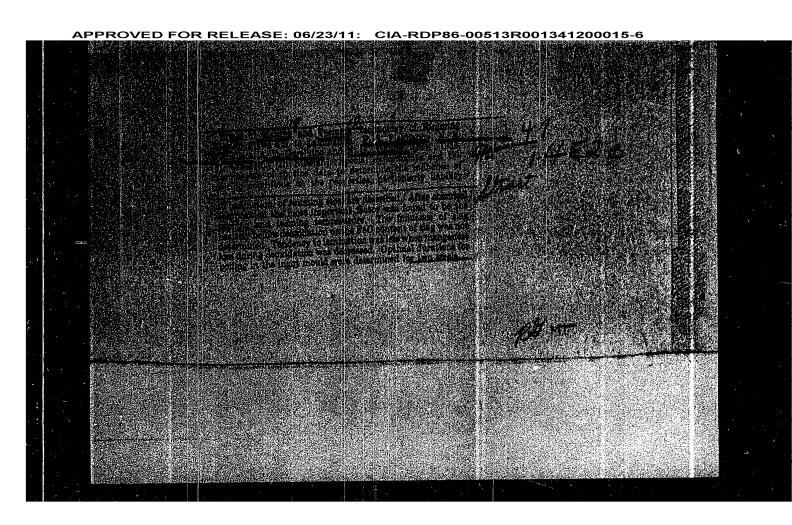
PLEKHANOV, S.M.

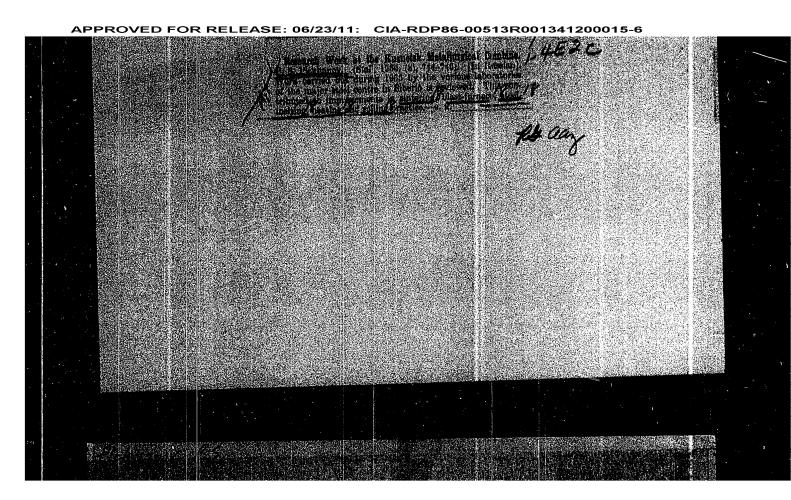
Mechanization of bottom clearing operations in the Kara Basin.
Rech. transp. 18 no.9:49-50 S '59. (MIRA 13:2)

1. Inzhener sluzhby puti Kamskogo basseynovogo upravleniya puti.
(Kara Valley--Cranes, derricks, etc.)
(Rivers--Regulation)

PLEKHANOV, P.S.; GOLOVANENKO, S.A.; KOBYZEV, V.K.; BULAT, S.I.; MIL'TO, Yu.R.; RYAZANOV, D.G.; BARANOVSKAYA, M.I. Mastering the rolling of bimetal shapes for the agricultural machinery industry. Stal' 25 no.10:922-927 0 '65. (MIRA 18:11) 1. Kuznetskiy metallurgicheskiy kombinat i TSentral'nyy nauchnoissledovatel'skiy institut chernoy metallurgii im. I.P. Bardina.







Absolutive mank SSR. Institut matalingii Sevementy's problemy matalingii (Modern Problems in) Messew, iddwo Al SSR, ijeji, 640 p. 3,000 copies Resp. 24.1 A.R. Samarin, Corresponding Senser, USSR Acs A.R. Dermoy; Tedh. 24.1 T.V. Polyakova. MENOSS: This box is intended for solantific and tech semmel in the field of retalling. COTRIGE: This is a collection of articles on certain Sevies metalling: The secility of the Solvet metallingis. The Privation Bardan on the occasion of this 75th bit beet is divided into seven parts. The first part so profusional satisfact first seven parts. The first part so will be the United States. The first part of the articles and deals with raw materials and thus is for the matallingical industry. The third part consists articles and deals with raw materials and thus is for the pertion of the box. It consists of 25 articles deal the various aspects of the setalling of pig iron and the various aspects of the setalling of pig iron and the various aspects of the setalling of pig iron and the various aspects of the setalling of pig iron and ingy of noniversous setals and sent resting at the articles deal the restalling forming of setals the streating the lurg: The learn problems in Metallurg; Medern Problems in Metallurg; Examiler, I.I. [Dootor of Chemical Sciences, Metallurg of Tabilter is bent A. Bayrov, AS USSRI. Chemistry of Rereport of the box. Tabilter is bent A. Bayrov, AS USSRI. Chemistry of Tabilter, I.I. [Dootor of Chemical is not recal	Finkment of Freatment and Toughness of low Carbon Ste by Heaviers treatment and 2.0 Fridmen. Investigating Pel Strength of Rails Containing Arenio Fishenfor, F.S., L.Ta. Errbanko, and V.A. Ecakin [Mail Impical Porging Containing Arenio Fishenfor, P.S., L.Ta. Errbanko, and Y.A. Ecakin [Mail Impical Porging Containing Arenio GENERAL Fasiatance of Rails by Oli Quenching Generating, K.P. [Candidate of Technical Strength Fisher Hastitute for the Design and Fisher of Persis Available: Library of Congress 60/84 62-59
AHNOV 25	

PA ~ 2769

The Central Works Laboratory.

roller-bearings was studied and it was possible to reduce the rate of scrap production to 1/5. Low carbon dynamo steel is now being smelted in the big Martin furnace. The smelting of non-corrosive and acid-resistive steel in electric furnaces was investigated and improved. The portion of scarp in the fused mass with chromium contents was utilized with a rate of 75 %.

The group of laboratory workers concerned with heat technique introduced the accelerated process of heating the ingots in the pits, which was carried out by heating the pits with coke gas and improving this process. Heating processes for semifinished products in heating furnaces of the "500" milling train employing additional air supply in the burner were developed, which increased the efficiency of the furnaces by 10 - 15 %. The furnaces of the profile milling train were redesigned and an output increase of 25 - 30 % was attained by this means. A milling scheme for rectangular ingots on the "1200" milling train led to the saving of 4 passes and increased efficiency by 6 - 7 %. A new type of steel mark for swages was developed in the department for rail joints. The life of the swage was increased by a factor of 30.

ard 2/3

The production of two-layer milled sheets from round semifinished iron led to a saving of 70 % of expensive acid resistant steel.

.JTHOR:

PLEKANOV, P.S., Deputy-Chief of the Central Works Labor-PA - 2769

TITLE:

The Central Works Laboratory. (Tsentralnaya zavodskaya laboratoriya,

PERIODICAL:

Metallurg, 1957, Vol 2, Nr 4, pp 31 - 33 (U.S.S.R.)

Received: 5 / 1957

Reviewed: 6 / 1957

ABSTRACT:

The Central Works Laboratory performs two functions:

1) Control analysis of raw materials, semifinished products and finished products.

2) Research on the development and improvement of operation procedures in all fields of metallurgy.

From experiments on the utilization of non-magnetic ores it was learnt that, on the occasion of the designing of plants for these ores, in addition to magnetic separation, a flotation process must be provided. The group concerned with Martin blast-furnace succeeded in the introduction of smelting processes with arched roofs magnesia chromite bricks, which resulted in an increase of output of 5 - 10% and in a step-up of the durability of the arched roofs to 500 (large furnaces) and 762 (small furnaces) smeltings.

A method of desoxidation (total and partial) of rimmed steels with and admixture of manganese iron was developed and led to a saving of 2,6 kg per ton of steel. The smelting and casting of steel for

Card 1/3

PLEKHANOV, P.S., inzh.; PETUKHOV, B.G., inzh; SAKHAROV, G.A., inzh.

Production of silicon steel plate. Izv.vys.ucheb.zav.; chern.met.

(MIRA 11:11)

1. Kuznetskiy netallurgicheskiy kombinat.

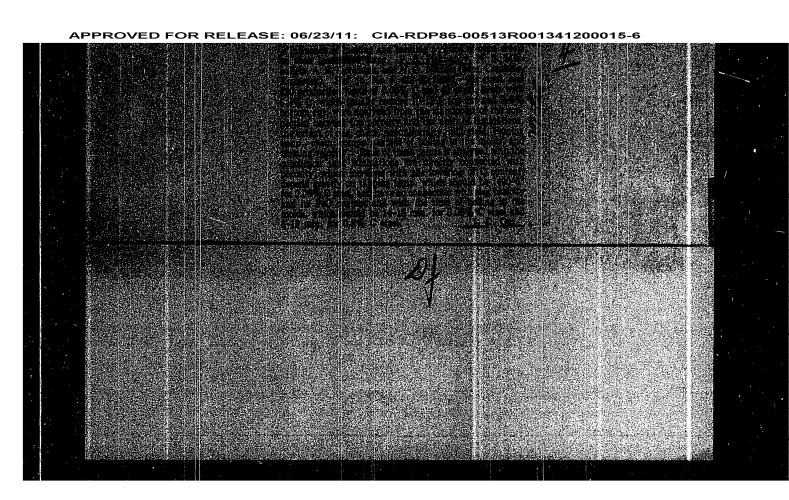
(Iron-silicon alloys) (Plates iron and steel)

KOSAR', A.V.; red.; VOLOSHIN, A.N., red.; GUREVICH, R.V., red.; KROPACHEV, N.G., red.; PARENCHEMKO, N.S., red.; PLEKHAHOV, P.S., red.; SUSLOV, I.A., red.; SHAROV, G.V., red.; OGAREV, A.P., teknn.red.

[First in Siberian metallurgy] Pervenets Sibirskoi metallurgii.
Kemerovskoe knizhnoe izd-vo. 1957. 289 p. (MIRA 12:4)

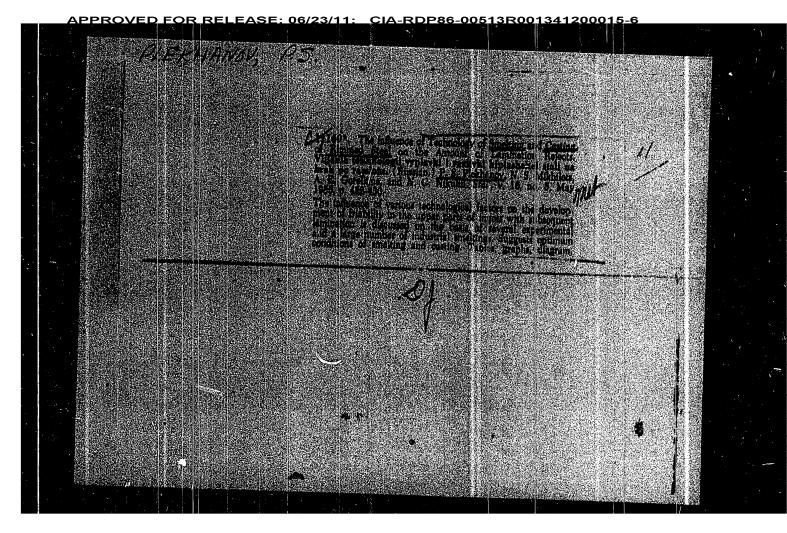
1. Sekretar' pertkoma Kuznetskogo kombinata (for Parenchenko).
2. Nachal'nik tekhnicheskogo otdela Kuznetskogo kombinata (for Sharov).

(Kuznetsk Basin---Metallurgical plants)



CHELYSHEV. N.A.; KOBYZEV. V.K.; PLEKHANOV, P.S.; BOGDANOVA, N.G.; YAMPOL'SKIY, A.M.

Investigating metal deformation during the rolling process on the 750 mill by means of radioactive isotopes. Izv. vys. ucheb. zav.; chern. met. no.8:48-58 '60. (MIRA 13:9)



PLEKHANOV, P.S., inghener. Central industrial laboratory. Metallurg. 2 no.4:31-33 (MLRA 10:5) 1. Zamestitel nachal nika TSentral noy zavodskoy laboratorii Kuznetskogo metallurgicheskogo kombinata. (Stalinsk--Metallurgical laboratories)

5/148/62/000/006/001/005 E071/E435

Casting of 7 ton ingots ...

wold together during rolling so that only the open part of the cavity has to be cut off. Altogether five modifications of teoming practice were tested (described in some detail and illustrated). Depending on the teoming practice, the size of the cut off end varied from 3 to 7%. Subsequent testing of the vertical cross-section of an ingot with closed shrinkage cavity vertical cross-section of an ingot with closed shrinkage cavity for the segregation of carbon, phosphorus and sulphur showed that the degree of segregation was small and did not exceed the degree of segregation encountered in normal ingots. There are 4 figures.

ASSOCIATION: Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgichoskiy kombinat (Siberian Metallurgical Institute and Kuznetsk Metallurgical Combine)

SUBMITTED: May 20, 1961

PLEKHANOV P.S.

Punamatik -1

39748

11500

5/148/62/000/006/001/005 E071/E435

AUTHORS:

Vishnyakov, A.V., Danilov, P.M., Meteleva, G.G., Borodulin, A.I., Tkachev, I.S., Plekhanov, P.S.

TITLE:

Casting of 7 ton ingots of killed steels with closed

shrinkage cavity

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no.6, 1962, 32-38

TEXT: The possibility of teeming 7 ton ingots with a closed shrinkage cavity which is sufficiently clean as regards non-metallic inclusions and segregations to become welded together on rolling was demonstrated. For insulating the closed shrinkage cavity from air, a skin of 3 to 5 mm thick would be sufficient but for the fact that on reheating the ingot such thin skin can melt and, therefore, the thickness of an insulating layer of 20 to 100 mm is desirable. The principle of the method is to form a bridge in the shrinkage cavity soon after terming. This bridge will divide the shrinkage cavity into closed and open parts. The closed part will Card 1/2

PLEKHANOV, P.S., inzh.; KOSHKIN, V.A., inzh.; KRITININ, I.A., inzh.;
Prinimali uchastiye: BAZHENOV, M.M.; VAYNSHTEYN, I.L., POPOV, R.G.;
ZAKHARENKO, N.I.; MANCHEVSKIY, I.V.; GRDINA, Yu.V.; GOVORKOV, A.P.;
NESTEROV, N.A.; GRIGORKIN, V.I.

Rolling of high-manganese rails. Stal' 21 no.5:423-425 My '61.
(MIRA 14:5)

1. Kuznetskiy metallurgicheskiy kombinat (for Plekhanov, Koshkin,
Kritenin, Bazhenov, Vaynshteyn, Popov, Zakharenko, Manchevskiy).
2. Sibirskiy metallurgicheskiy institut (for Grdina, Govorkov,
Nesterov, Grigorkin).
(Railroads—Rails) (Rolling (Metalwork))

VOINOV, S.G.; KOSOY, L.F.; SHUMOV, M.M.; SHALIMOV, A.G.; CHEKHOMOV, O.M.; ANDREYEV, T.B.; AFANAS'YEV, S.G.; KALINNIKOV, Ye.S.; Prinimali uchastiye: KORNEYENKOV, A.N.; GURSKIY. G.V.; BOKSHITSKIY, Ya.M.; PETROV, A.K.; MOKHIR, Ye.D.; KOLYASNIKOVA, R.I.; KHASIN, G.A.; DANILIN, V.P.; PLEKHANOV, P.S.; MAZÚN, A.I.; MAFKIN, A.A. Refining converter steel in the ladle with liquid synthetic slag. Stal! 22 no.3:226-232 Mr 162. (MIFA 15:3) (Steel--Metallurgy)

PLEKHANOV, P.S. Central plant laboratory. Metallurg 7 no.4:32 Ap :62. (MIRA 15:3) 1. Zamestitel nachal nika Tsentral noy zavodskoy laboratorii Kuznetskogo metallurgicheskogo kombinata. (Metallurgical laboratories)

28947

S/133/61/000/010/010/010 A054/A127

At the Kuznetskiy metallurgicheskiy kombinat...

By these measures the sulfide index was lowered from 1.89 to 1.02 and that for exides from 2.01 to 1.72. 3) Tests were carried out in co-operation with the Institut elektrosvarki im. Patona (Electric Welding Institute im. Paton) and the Barnaul'skiy kotel'nyy zavod (Barnaul Boiler Plant) to produce double-layer steel plates, 150 - 200 mm thick. It was possible to produce multi-layer sheets of any required thickness by electro-slag welding. A reliable bond between the layers over the entire length of the sheet was obtained by fusing the surfaces being welded. The technology consists of a) casting ingots of the required weight and eliminating their conicity by rolling; b) planing one of the broad sides of the ingot to remove surface defects; c) welding 1x18H9T (1Kx18N9T) steel sheets to the planed surface of the bloom by the electro-slag method; d) rolling the welded blanks into double-layer sheets. The greatest strength of the welding seam was obtained with Cs.08A (Sv.08A) steel electrodes. A Y-18 (U-18) device is teing designed for welding the double-layer blooms with sheet-type electrodes.

Card 3/3

At the Kuznetskiy metallurgicheskiy kombinat...

28947 \$/133/61/006/C1C/010/010 A054/A127

in the metal. The lowest amount of oxide inclusions was observed at a metal viscosity corresponding to 2 - 7 cm of the scale of the viscosimeter with a channel cross section of 81 mm2. At such a degree of viscosity the amount of stable inclusions (determined electrolytically) was also lowest. By increasing the 210%content of the slag the sulfide and oxide content decreased; calcium oxide reduced the content of semi-brittle silicate and globular inclusions; aluminum oxide lowered the sulfide content but increased the oxide content; an increasing MgO-content in the slag raised the amount of semi-brittle inclusions in the steel. With decreasing slag viscosity the SiO2-content of the non-metallic inclusions increased, whereas the aluminum oxide content rose until the optimum fluidity (2 - 7 graduations on the viscosimeter) was attained, then it dropped again. The minimum amount of FeO in non-metallic inclusions coincided with the optimum slag fluidity. The higher the content of stable nonmetallic inclusions (FeO, MnO) the greater the oxide content. The more the fluidity of the slag is kept under control, the better the metal reduction (using crushed electrode-waste and coke), the cleaner the ballbearing steel will be (oxide index 1.35 instead of 1.59). Tests were carried out to reduce the amount of sulfide inclusions in silicium-manganese ball-hearing steel, by remelting wastes of the steel. To decrease the oxide content, the metal was subjected to precipitation reduction with aluminum prior to alloying with silicium.

1230

28947 s/133/61/000/010/010/010 A054/A127

AUTHORS:

Plekhanov, P. S., Nikulinskiy, I. D., Engineers

TITLE:

At the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical

Combine)

PERIODICAL: Stal', no.10, 1961, 949

TEXT: 1) Tests were carried out to simplify the production methods and lower the production costs of KT-1 (KT-1) carbon steel used for piano strings. For this purpose the metal was processed in an arc-furnace and tapped with fluor-lime-alumina slag. The new KT-2 grade steel does not differ from the KT-1 type as to grain size, while the macrostructure of blanks from this steel as to central porosity is better than that of KT-1 steel. 2) Ways and means were studied to further reduce the amount of non-metallic inclusions in ball-bearing steel. By introducing coke gas a protective atmosphere is formed around the metal atream from the ladle to the central gate, which reduced the oxide index from 1.98 to 1.71 and for globular inclusions from 0.15 to 0.03, whereas the tendency of the metal to form flakes increased, due to the greater humidity of the gas. An increase in the fluidity of the tapped slag reduced the amount of sulfide impurities and globules

\$/130/62/000/004/002/002 AGO6/A101

AUTHOR:

Plekhanov, P. S., Deputy Chief of TsZL

TITLE:

Central Laboratory of the Plant

PERIODICAL: Metallurg, no. 4, 1962, 32

TEXT: General information is given on the activities of the KMK central laboratory, which is equipped with latest models of apparatus and machines. New methods and techniques have been developed at this laboratory, including: endurance tests at 300 and 350°C; toughness tests at -40 and -60°C, and many endurance tests methods; a rapid method of etching transverse templets without other test methods; a rapid method of etching transverse templets without polishing the specimen surface, immediately after planing; ultrasonic control polishing the specimen surface, immediately after planing; ultrasonic control polishing the specimen surface, immediately after planing; ultrasonic control polishing the specimen surface, immediately after planing; ultrasonic control polishing the specimen surface, immediately after planing; ultrasonic control polishing the specimen surface. In electric steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eutectoid steel; ductility tests steels; a method for determining the grain in eute

PLEKHANOV, P.S., inzh.; NIKULINSKIY, I.D., inzh. Research carried out by the Kuznetsk Metallurgical Combine. Stal' 21 no.10:882,926,944,949,958 0 '61. (MIRA 14 (Blast furnaces) (Steel-Metallurgy) (Metalwork) (MIRA 14:10)

News in brief...

\$/133/61/000/011/902/010 A054/A127

molds with lined coolers. Shrinkage cavities carefully insulated from the atmosphere and having a non-oxidized surface will weld up at continuous deformation, displaying in the axial part diffused dark spots. The mechanical properties of rails at the places of coalescence of the cavities did not differ from those of other metal zones. The quality of rails cast with the application of coolers was not lower than that of those cast with heating devices. This method made it possible to reduce the head crop to 7 - 8, or even to 4 - 6%. 5) The operation of a floating steel insulator with a suspended ceramic ring was also tested. The use of such insulators makes it possible to cast the ingots without interrupting the metal flow at all or only for short periods. Moreover, a better quality steel was obtained. However, a method has to be developed to manufacture rings of accurate size and high strength, because the manual procedure applied at present in not efficient.

Card 3/3

News in brief ...

S/133/61/000/011/002/010 A054/A127

40 kopecksper ton of steel are saved. 2) In cooperation with TSNIIChM the entreet of adding liquid synthetic slag (melted from 55% lime and 45% commercial appring. in an arc-furnace with a bath of carbon blocks) was studied. The ladle was 1000 heated, the amount of slag was 5%. The metal was teemed (from a basic open-hear furnace) into the ladle, without adding any open-hearth sing. After 87 hours was found a) that the sulfur content of the finished metal decreased to 1.16 -0.007% irrespective of the sulfur content in the bath prior to tapping: (2) test the steel had a higher ductility and strength; c) that in oper-reart' hall-rear ing steel the nonmetallic inclusions could be reduced. 3) By refining in the ladde rail steel with synthetic lime-alumina slag, 98.9% first-rate product of the P-50 (R-50) grade and 90.4% of the R-65 grade rails were obtained. The sulfur consent of the final product was reduced to 0.004% - 0.010%, the amount of starge nonmetallic inclusions decreased by a factor of 1.5, the sulfide index from 3.32 to 1.24: the amount of oxides did not change; notch-toughness in transferse specimens increased by 0.3 - 0.8 kg-/cm . 4) In cooperation with SMI, the possibilities of decreasing the head-crop of killed steel ingots were studied. 13 different test castings were made with various mold insulations and molds of different shapes, etc. The best results were obtained when pouring took place in loapt

Card 2/3

CIA-RDP86-00513R001341200015-6

S/133/61/000/011/002/010 A054/A127

AUTHORS:

Plekhanov, P. S., Nikulinskiy, I. D., Engineers

TITLE:

News in brief - at the Kuznetskiy metallurgicheskiy kombinat (Kuz-

netsk Metallurgical Combine)

PERIODICAL: Stal', no. 11, 1961, 998

TEXT:

1) Tests were carried out to investigate the expediency of replacing aluminum by ferro-aluminum in the reduction of steel. In large-capacity open-hearth furnaces 10, 20, 40 and 45 grade rail steels were smelted in two ladles, one with the standard amount of aluminum, the other with ferro-aluminum having an aluminum content of 78% of the standard quantity. The ferro-aluminum was produced by melting aluminum lumps with low-carbon steel (0.15% C, 0.61% Mn, 0.012% P) and contained 0.17% C, 1.08% Mn, 0.86% Si and 0.005% P. Aluminum and ferro-aluminum contained 0.17% C, 1.08% Mn, 0.86% Si and 0.005% P. Aluminum and ferro-aluminum the ladles by hand 30 - 40 sec after the addition of 45-% ferrosilized. The steel reduced with ferro-aluminum contained slightly less oxygen and residual aluminum, and fewer nonmetallic inclusions than the standard quality. There is aluminum, and difference in steel reduced with either of the two agents as to macrohardly any difference in steel reduced with either of the two agents as to macrohardly any difference in steel reduced with either of the two agents as to macrohardly any difference in steel reduced with either of the two agents as to macrohardly any difference in steel reduced with either of the two agents as to macrohardly any difference in steel reduced with either of the two agents as to macro-

APPROVED FOR RELEASE: 06/23/11: GIA-RDP86-00513R001341200015-6

S/133/61/000/005/005/005

The practice of rolling high-manganese rails A054/A133

tute)]. There are 2 tables.

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat [Kuznetsk Metallurgical (Integrated) Plant]

Card 3/3

3/133/61/000/005/005/009 A054/A133

Plekhanov, P.S.; Koshkin, V.A.; Kritinin, I.A.; - Engineers

AUTHORS:

TITLE:

The practice of rolling high-manganese rails

PERIODICAL: Stal', no. 5, 1961, 423 - 425

Tests were carried out at the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine) to produce high-manganese rail steel of the following composition (%): C 0.93; Mn 12.02; Si 0.09; P 0.09; S 0.021; Cr 0.05; Ni 0.13; Cu 0.14. The test ingots, 1.3 and 6 tons in weight, were left to cool in the molds for 4 days and, in order to increase the ductility of the cast steel they were subjected to the following homogenization process: 1) Loading the cold ingots into a furnace at a temperature of 300°C, 4 h 30 min holding; 2) heating from 300 to 700°C in 7 h 40 min, with an average temperature increase of 52°C/h; 3) heating from 700 to 1,050°C in 5 h 50 min, with a temperature increase of 600C/h; 4) holding at 1,050 - 1,080°C for 48 h and cooling in air in the neighborhood of the furnace. No carbide phase was found after homogenization in the steel structure. Heating the 1.3-ton ingots in a continuous furnace was carried out in the following stages: 1) In the continuous zone (5 h 25 min) at a

PLEKHANOV, P.S., inzh. Correcting structural heteorgeneity in railroad rails. Stal! 22 no.1:73-74 Ja 162. (MIRA 14:1. (MIRA 14:14) (Railroads—Raile) (Steel ingots—Defects)

VISHNYAKOV, A.V.; BORODULIN, A.I.; DANILOV, P.M.; METELEVA, G.G.; TKACHEV, I.S.; PLEKHANOV, P.S. Quality of the fusion of closed shrinkage cavities in killed steel ingots, Stal! 22 no.12:1118-1120 D '62. (MIRA 15:12) 1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat. (Steel ingots--Defects) (Rolling (Metalwork))

VISHNYAKOV, A.V.; DANILOV, P.M.; METELEVA, G.G.; BORODULIN, A.I.;

TKACHEV, I.S.; PLEKHANOV, P.S.

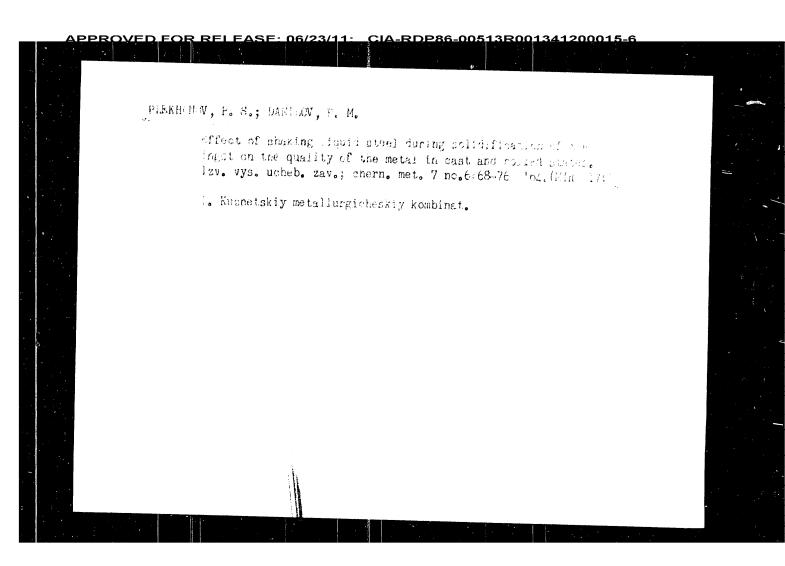
Casting seven-ton ingots of killed steel with closed shrinkage cavities. Izv.vys.ucheb.zav.; chern.met. 5 no.6:32-38 '62.

(MIRA 15:7)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat.

(Steel ingots)

VISHNYAKOV, A.V.; DANILOV, P.M.; METELEVA, G.G.; BORODULIN, A.I.; TKACHEV, I.S.; PLEKHANOV, P.S. Fusion of closed shrinkage cavities in killed steel ingots. Izv. vys. ucheb. zav.; chern. met. 5 no.8:44-52 162. 1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat. (Steel ingots-Defects)



PLEKHANOV, P.S. Increasing the strength and plasticity of rails of chromium-nickel steel. Stal' 23 no.5:459-460 My '63. (M (MIRA 16:5) 1. Kuznetskiy metallurgicheskiy kombinat.
(Chromium-nickel steel-Heat treatment) (Railroads--Rails)

News in brief ...

s/133/61/000/011/008/010 A054/A127

standard and the test heats as to mechanical properties, microstructure, where composition and mechanical properties of steel grades 45. P-50 (R-50) and R-65 produced in the conventional way and according to the test method. Metals therefore with synthetic slag showed a finer structure in the pearlitic zones. This explains the higher ductility of these heats ($\Psi \approx 20\%$). 4) Optimum technological parameters for the pickling of stainless steel sheets by the alkaline method have been level uped: temperature, pickling duration, composition of the pickling solution. Investigations of the corrosion resistance of metals for alkaline baths showed that the best results were obtained with CXII-2 (SKhI-2), SKhI-4, SKhI-45, OBKH (OBKD), Cr 3 (St.3) steels. The application of alkaline pickling improved the sheet summades, prevented overpickling and increased the capacity of pickling baths and deced duced the consumption of chemicals.

Card 3/3

\$/133/61/000/011/008/010 A054/A127

AUTHORS:

Plekhanov, P. S., Nikulinskiy, I. D., Engireers

TITLE:

News in brief - At the Kuznetskiy metallurgicheskiy kombinat (Kui-

netsk Metallurgical Combine)

PERIODICAL: Stal*, no. 11, 1961, 1033

TEXT:

1) The structural nonhomogeneity and the distribution of nonmetallic inclusions in the ingot were studied in the test specimers with the aid of P3: and S3D radioactive isotopes, by deep pickling, ultrasound, chemical, microchemical, petrographic and metallographic analyses. Based on tests with 193 idents of 19 heats of various compositions (in the cast and rolled state) it was found that of a distance of 20 - 40% from the bottom a zone of structural nonhomogeneity devalops. In castings this zone has the shape of a reversed cupola or cup with a wall-thickness of 40 mm and in rolled products it has an elongated shape up to 1.5 m in length. In this zone nonmetallic inclusions (mainly aluminum oxide) accumulate, in about a exceeding other inclusions by a factor of 30 - 40. This defect was observed in several steels, containing chromium, chrome-manganese, filanium and curbon, at different temperatures and with various types of molds, pouring systems.

s/133/61/000/011/008/010 A054/A127

AUTHORS:

Plekhanov, P. S., Nikulinskiy, I. D., Engireers

THIE:

News in brief - At the Kuznetskiy menallurgi meskiy kombinat (Kounetsk Metallurgical Combine)

PERIODICAL: Stal', no. 11, 1961, 1033

1) The structural nonhomogeneity and the distribution of nonmedallic inclusions in the ingot were studied in the test specimers with the aid of F32 and 335 radicactive isotopes, by deep pickling, ultrasound, enemical, microchemical, petrographic and metallographic analyses. Based on tests with 153 ingets of 13 heats of various compositions (in the cast and rolled state) it was found that a a distance of 20 - 40% from the bottom a zone of structural nonnomogeneity develops. In castings this zone has the shape of a reversed cupola or our with a wal-Thickness of 40 mm and in rolled products it has an elongated shape up to 1.5 m in length. In this zone nonmetallic inclusions (mainly aluminum oxide) accumulate, in amounts exceeding other inclusions by a factor of 30 - 40. This defect was observed in several steels, containing chromium, chrome-manganese, bitarium and carbon, at different temperatures and with various types of molds, pouring systems,

Gard 1/3